

Industry Credentials, Concentration Sequences, and Career Clusters

Applied Agricultural Concepts (8072, 8073)

Industry Credentials:

These apply only to 36-week courses.

- BASF Plant Science Certification Examination
- College and Work Readiness Assessment (CWRA+)
- Customer Service Specialist (CSS) Examination
- Food Safety & Science Certification Examination
- Meat Evaluation Certification Examination
- National Career Readiness Certificate Assessment
- Workplace Readiness Skills for the Commonwealth Examination

Concentration Sequences:

*A combination of this course and those below, equivalent to two 36-week courses, is a **concentration sequence**. A **program completer** is a student who has met the requirements for a CTE concentration sequence and all other requirements for high school graduation or an approved alternative education program. Students wishing to complete a specialization may take additional courses based on their career pathways.*

- Agricultural Fabrication and Emerging Technologies (8019/36 weeks)
- Agricultural Power Systems (8018/36 weeks)
- Agricultural Power Systems, Advanced (8020/36 weeks)
- Agricultural Production Technology (8010/36 weeks)
- Agricultural Structural Systems (8017/36 weeks)
- Applied Agricultural Concepts (8072/18 weeks)
- Biological Applications in Agriculture (8086/36 weeks)
- Biotechnology Applications in Agriculture (8087/36 weeks)
- Biotechnology Foundations in Agricultural and Environmental Science (8085/36 weeks)
- Biotechnology Foundations in Health and Medical Sciences (8344/36 weeks)
- Biotechnology Foundations in Technology Education (8468/36 weeks)
- Community Forestry and Tree Management (8048/36 weeks)
- Ecology and Environmental Management (8046/36 weeks)
- Ecology and Environmental Management (8045/18 weeks)
- Floriculture (8038/36 weeks)
- Food Science and Dietetics (8239/36 weeks)
- Forestry Management (8042/36 weeks)

- Forestry Management, Advanced (8044/36 weeks)
- Greenhouse Plant Production and Management (8035/36 weeks)
- Horticulture Sciences (8034/36 weeks)
- Introduction to Animal Systems (8008/36 weeks)
- Introduction to Natural Resources and Ecology Systems (8040/36 weeks)
- Introduction to Plant Systems (8007/36 weeks)
- Introduction to Power, Structural, and Technical Systems (8016/36 weeks)
- Landscaping I (8036/36 weeks)
- Landscaping II (8039/36 weeks)
- Livestock Production Management (8012/36 weeks)
- Operating the Farm Business (8014/36 weeks)
- Outdoor Recreation, Parks, and Tourism Systems Management (8043/36 weeks)
- Turfgrass Management (8051/36 weeks)
- Turfgrass Management, Advanced (8054/36 weeks)

Career Clusters, Career Pathways, and Occupations:

- Agriculture, Food and Natural Resources
 - Agribusiness Systems
 - Agricultural Commodity Broker
 - Agricultural Products Sales Representative
 - Farm, Ranch Manager
 - Feed, Farm Supply Store Sales Manager
 - Animal Systems
 - Animal Breeder, Husbandry
 - Animal Scientist
 - Poultry Manager
 - Environmental Service Systems
 - Agricultural Products Sales Representative
 - Environmental Compliance Inspector
 - Water Conservationist
 - Food Products and Processing Systems
 - Biochemist
 - Food Scientist
 - Natural Resources Systems
 - Fish and Game Officer
 - Forest Technician
 - Outdoor Recreation Guide
 - Park Manager
 - Park Technician
 - Wildlife Manager
 - Plant Systems
 - Forest Geneticist
 - Nursery and Greenhouse Manager
 - Tree Surgeon
 - Power, Structural, and Technical Systems

- Agricultural Equipment Operator
- Agricultural Equipment Parts Manager
- Agricultural Equipment Parts Salesperson